

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Cooling Tower NEMA
Premium Efficiency Three-Phase

Product code : 11972740

Catalog # : 02518ET3ECT284TF1-W2

Frame	: 284T	Cooling method	: IC411 - TEFC
Insulation class	: F	Mounting	: F-1
Duty cycle	: Cont.(S1)	Rotation ¹	: Both (CW and CCW)
Ambient temperature	: -20°C to +40°C	Starting method	: Direct On Line
Altitude	: 1000 m.a.s.l.	Approx. weight ²	: 409 lb
Protection degree	: IP55	Moment of inertia (J)	: 5.11 sq.ft.lb
Design	: B		

Output [HP]	25	20	20	20	25	25	25
Poles	4	4	4	4	4	4	4
Frequency [Hz]	60	50	50	50	50	50	50
Rated voltage [V]	208-230/460	380	400	415	380	400	415
Rated current [A]	65.2-59.0/29.5	29.1	28.2	27.5	35.6	34.0	33.2
L. R. Amperes [A]	404-366/183	175	189	198	174	187	196
LRC [A]	6.2x(Code G)	6.0x(Code G)	6.7x(Code H)	7.2x(Code J)	4.9x(Code E)	5.5x(Code F)	5.9x(Code G)
No load current [A]	18.1-21.0/10.5	10.4	11.1	11.6	10.4	11.1	11.6
Rated speed [RPM]	1765	1465	1470	1470	1445	1455	1460
Slip [%]	1.94	2.33	2.00	2.00	3.67	3.00	2.67
Rated torque [ft.lb]	73.4	70.7	70.5	70.5	89.6	89.0	88.7
Locked rotor torque [%]	240	229	260	290	180	210	229
Breakdown torque [%]	270	260	300	330	210	240	260
Service factor	1.25	1.00	1.00	1.00	1.00	1.00	1.00
Temperature rise	80 K	80 K	80 K	80 K	105 K	105 K	80 K
Locked rotor time	43s (cold) 24s (hot)	32s (cold) 18s (hot)	32s (cold) 18s (hot)	32s (cold) 18s (hot)	32s (cold) 18s (hot)	32s (cold) 18s (hot)	32s (cold) 18s (hot)
Noise level ²	64.0 dB(A)	61.0 dB(A)	61.0 dB(A)	61.0 dB(A)	61.0 dB(A)	61.0 dB(A)	61.0 dB(A)
Efficiency (%)	25%						
	50%	92.4	91.3	91.3	91.2	92.4	92.4
	75%	93.0	92.1	92.5	92.5	91.7	92.4
	100%	93.6	92.1	92.6	92.7	91.7	92.4
Power Factor	25%						
	50%	0.70	0.69	0.65	0.62	0.76	0.70
	75%	0.80	0.80	0.78	0.75	0.84	0.80
	100%	0.84	0.85	0.83	0.82	0.86	0.84

Bearing type	Drive end	Non drive end	Foundation loads
	6311	6211	
Sealing	2RS C3	2RS C3	Max. traction : 815 lb
	V'Ring	V'Ring	Max. compression : 1224 lb
Lubrication interval	-	-	
Lubricant amount	-	-	
Lubricant type	Mobil Polyrex EM		

Notes

This revision replaces and cancel the previous one, which must be eliminated.

- (1) Looking the motor from the shaft end.
- (2) Measured at 1m and with tolerance of +3dB(A).
- (3) Approximate weight subject to changes after manufacturing process.
- (4) At 100% of full load.

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.

Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by				
Date	23/01/2018			

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Revision

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Customer :

Space heater information

Voltage: 110-127/200-240 V

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Performed by			Page 2 / 2		Revision
Checked by					
Date	23/01/2018				